

Paper March 26 1827
W. S. A.

etc.

Essay on Bilious Fever

By

Cyrus McCormick

of

Fredrick County

Virginia

1826

Bilious Fever

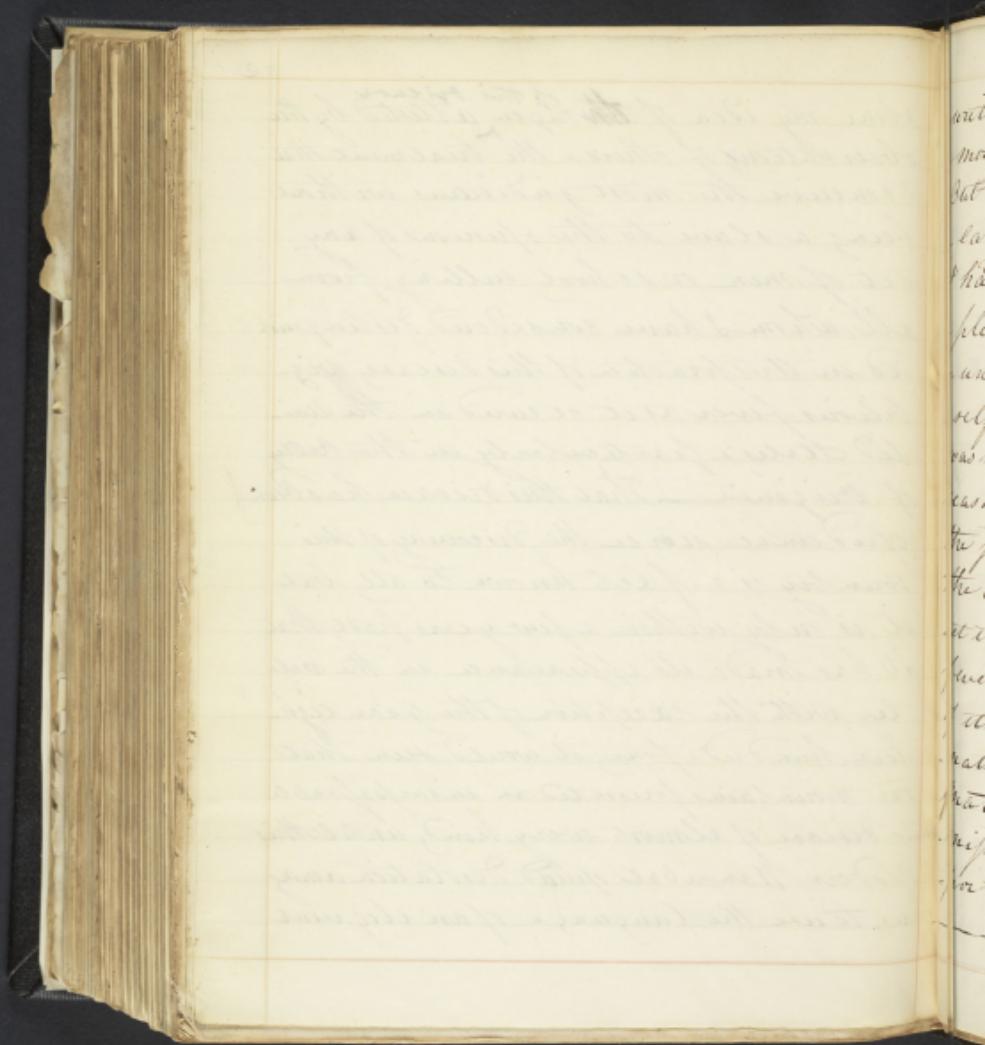
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We still have the old adage by us
Nil dictum, quod non dictum prius
In commencing the description & treat-
ment of a disease, I am well aware of
the almost insurmountable difficulties
which I have to encounter being practically
unacquainted with the stages of disease &
the remedies suited to them — I shall however
console myself with the reflection that the
practice of medicine is not intuitive, & that
I am addressing gentlemen who know that
the speculative illusions of theorists although
mighty on paper will avail nothing, by the
sickbed when the prospects of a rising
family & perhaps the life of a very dear
friend depend upon the knowledge that
you may have acquired of this or your
own personal experience — You gentle-
men must expect nothing from me but
plain matter of fact; I shall give you

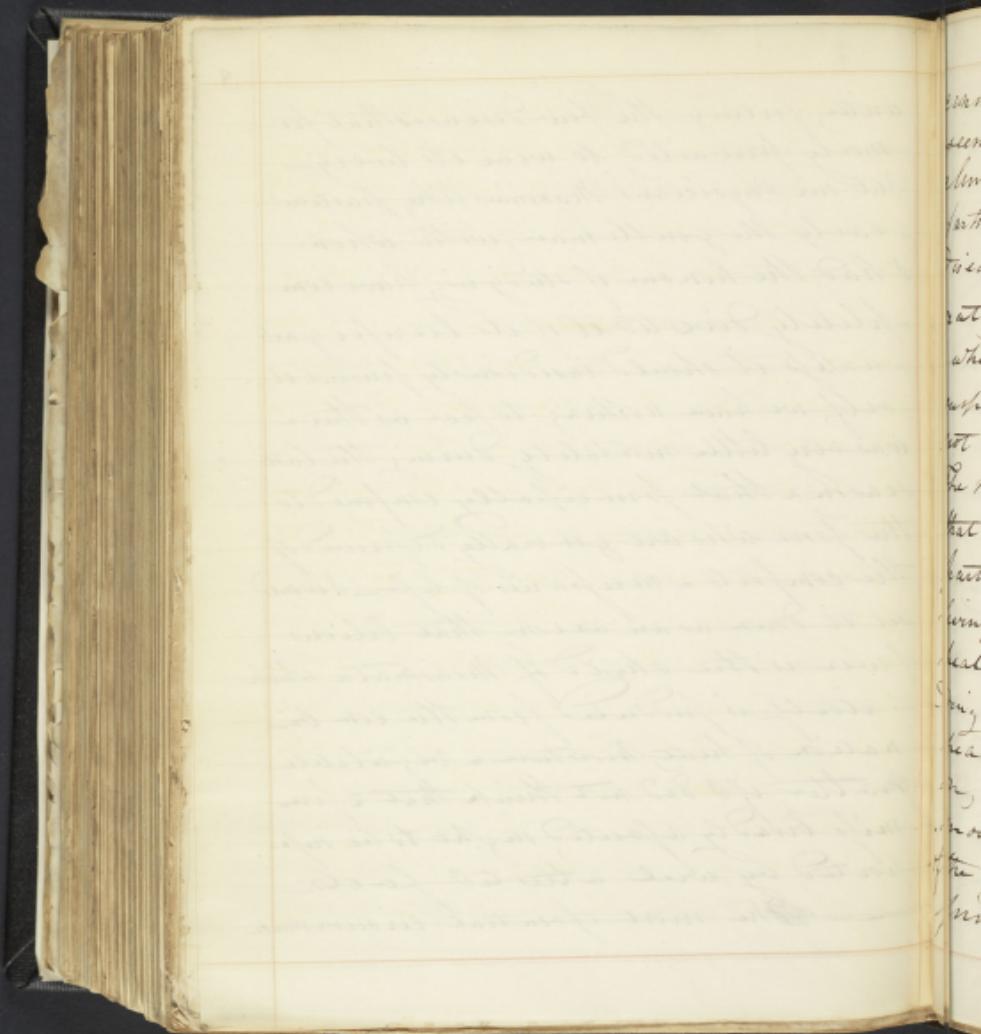
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alone my idea of ~~this~~^{of this disease} bug attested by the
observations of others & the treatment that
I conceive the most judicious without
being a slave to the opinions of any
set of men or school calling from
all whom I have considered distinguish-
ed in the practice of this disease priz-
eable never as it occurred in the Uni-
ted States & particularly in the Valley
of Virginia — That this disease has been
epidemic since the discovery of this
country is a fact known to all, but
it is only within a few years past that
it has made its appearance in the val-
ley with the exception of the year eigh-
teen hundred four, it would seem that
our mountains presented an insuperable
no disease of almost very kind, until this
modern-pannible spread desolation among
us, to use the language of an eloquent



winter, fearing the few diseases that formerly prevailed to wear its livery—
But our Physicians Maximas like, particu-
larly the gentleman, with whom
I had the honour of studying have com-
pletely diverted it of its terrific gait
& unless it should insidiously present it-
self, we have nothing to fear as there
was very little mortality during the late
season & that principally confined to
the poor who are generally deprived of
the comforts & necessities of life—I would
set it down as an axiom, that below
fever is the child of Miasma, which
itself is produced from the com-
bination of heat, moisture & vegetable
matter & I did not think that a pre-
miss broadly asserted ought to be sup-
ported by well attested facts
The most operant circumstance



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connected with its origin is that heat
seems necessary to its production - Cold
eliminates or always except from it the
farther you go south the violence of the
disease seems to move in a progressive
ratio; it never ~~exists~~ in the winter
when razing in the fall it is always
suspended by the first frost - Heat will
not however alone produce this disease
The hottest ^{sun} are the most healthy, Lind says
that the dry season in Senegal, the hottest
part of the year is healthy, the Arabs
living in the sparsely peopled deserts are always
healthy, & the English who have tra-
ding companies on the African coast are
healthy until the rainy season comes
on, in Africa heat - ^{Health} Typhus are synony-
mous & it is only upon the coming on
the wet season that sickness is
produced. In the valley the same thing

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rears our first & hottest seasons are the most healthy except our river & marshes. Har-
per Ferry affords a striking example during
the last season the river being unusually
low the month of August always
dry & hot is uniformly taken up from
No. 1 & it is only after our periodic
rains that bilious fevers manifest their
appearance — It appears from the fore-
going that moisture is also necessary
for the production of this disease
but moisture in excess so far from
producing it acts beneficially —
Brush says that the marshes of De-
aware are always healthy when un-
flooded — The inhabitants of Adas & Brax-
ton have arrested bilious fevers by
inundating their marshes — Dazile
says that the marshes at Cazene who
inundated are more healthy than at

the 1st at noon the wind
was SSW. 10-12 m.p.h.
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The 19th at noon the wind
was SSW. 10-12 m.p.h.
The 20th at noon the wind
was SSW. 10-12 m.p.h.

any other time - Exceptive rains long con-
tinued, always insures health to those
living upon water courses, this was
particularly observed at Shepheardstown
At all her ferries during our sickly
seasons, whilst the bilious fever was
moving with great strides through
our valley these places on account
of the inundation of their rivers
were entirely exempt from dis-
ease, but conversely they are al-
ways, sickly in proportion to
the Drought - Something more than
heat & moisture is then necessary
for the production. This I think
may be easily shewn I think by at-
tending to the different situations
that are most liable to it & the cir-
cumstances connected with those
situations. We find that both in

and a few hours distance with the
rest of the mountain range. The
waterfalls are very numerous and
varied in size. The most remarkable
is the one about 1000 feet high
which is about 100 feet wide.
The water falls from a rocky ledge
about 1000 feet above the river
and is about 100 feet wide. The
water falls from a rocky ledge
about 1000 feet above the river
and is about 100 feet wide. The
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water falls from a rocky ledge
about 1000 feet above the river
and is about 100 feet wide.

the old & new world that all those cities which have been the graves of unnumbered thousands were situated upon marshes or rivers —
In the fall of eighteen hundred & sixteen
by five thousand persons perished very
extensively upon the Standard Park
whilst in Charlestown only six
miles distant, there were three
cases, two physicians & a sheriff
whose officiale duties frequently
called ^{them} however, render it probable
that these cases were contracted
there — The above testimony clearly
shews that bilious fever is of mis-
matte origin, but I think it no-
thing but fair to mention that
some have supposed that mineral
exhalations have produced the
agent so important to its production.

and the old town was
about 25 miles from

Easton. Population about

10,000. The country is

the Potowomut country

which is a very flat

country with many

small hills and some

small streams. The

country is very flat

and the soil is very

rich and productive.

The people are mostly

of English descent and

are very industrious.

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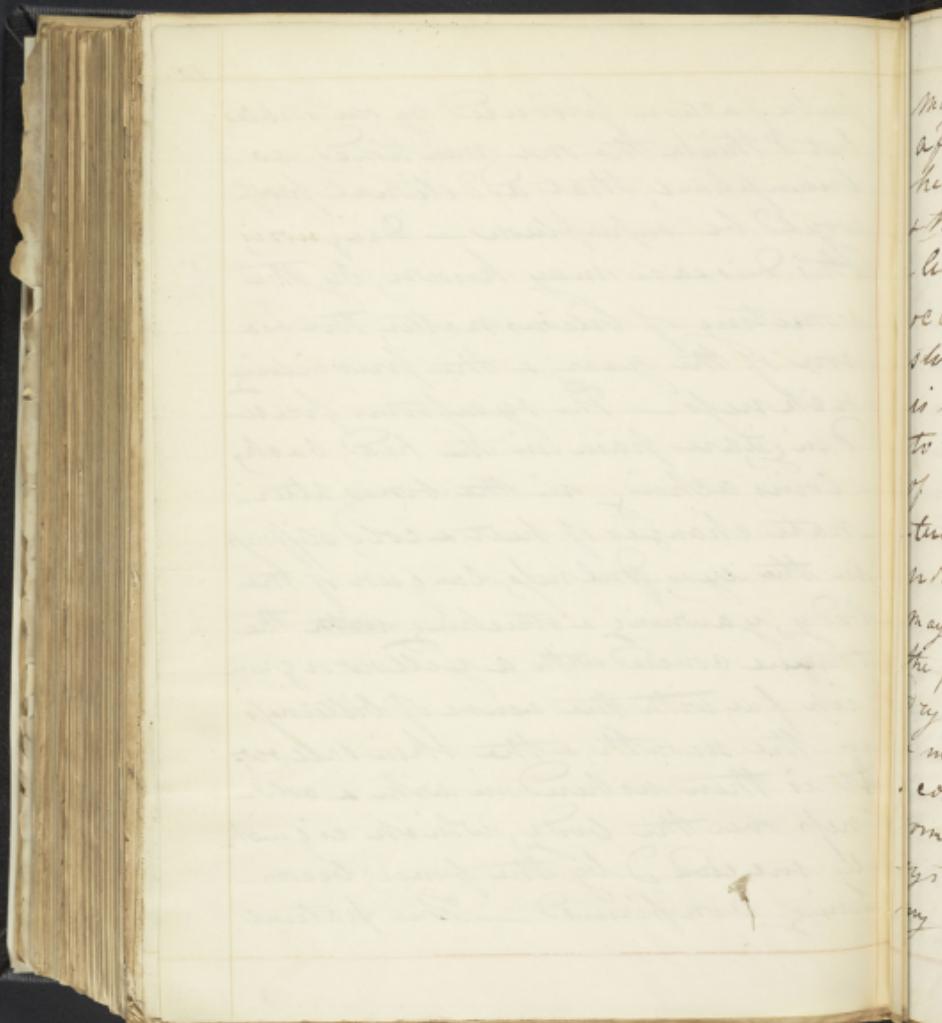
rich and productive.

but our valley contains no mines or
our mountains, where it is probable
minerals exist are generally healthy
except those that lie adjacent
to the river — It has been dispu-
ted & it is still a mooted point by
whether animal putrefaction has pro-
duced this disease; the weight of evi-
dence on both sides seems to lie
equally for ever fact — Galen says that
the Putrefaction of bodies left unbur-
ied on the field of battle have caused
this disease, he is powerfully suppor-
ted in this assertion, particularly by
Forstius, who says he was an eye witness
to one thus produced, the putrefaction
of a whale is said to have produced
an epidemic in Holland & in the
eastern states a fever is said to have
been produced by the putrefaction

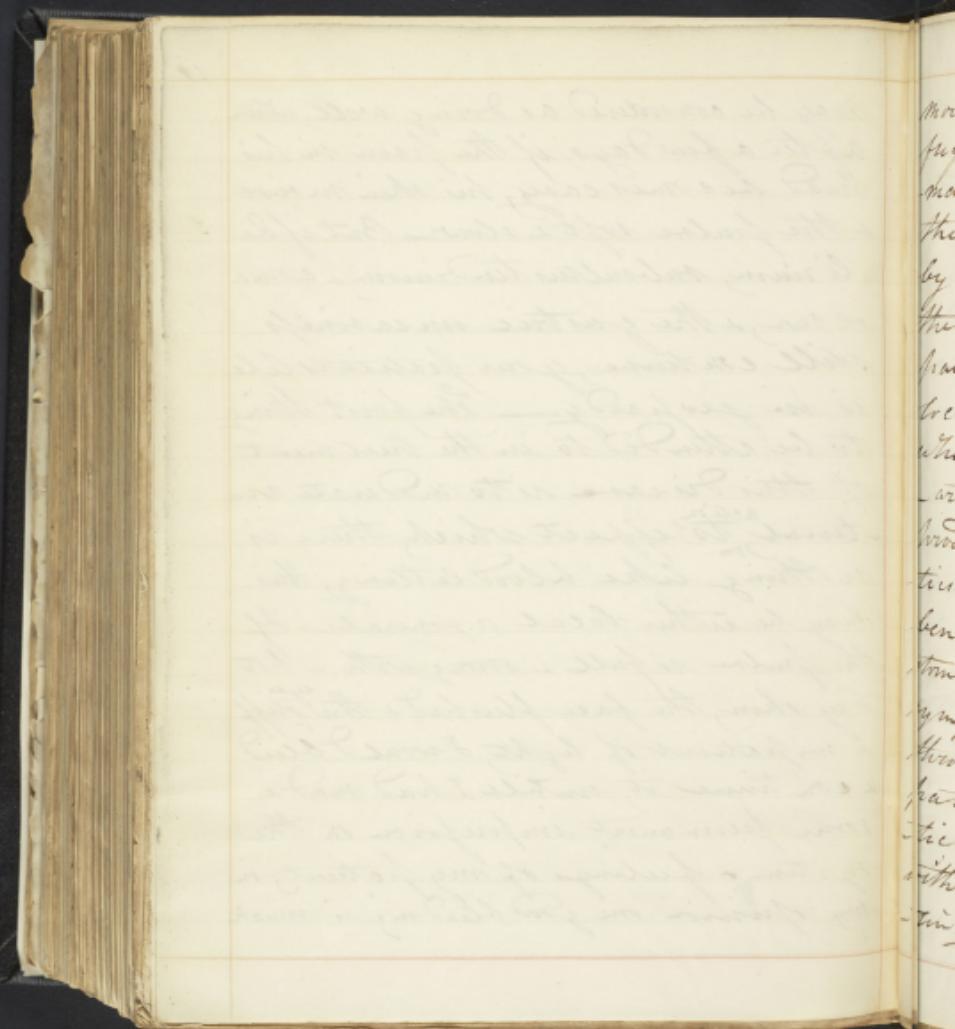
of fish, the malignant fever that prevailed in Beni-a-cola was ascribed to the same cause — Notwithstanding all this weight of authority, I think, obstinately perhaps that the foregoing testimony is chimerical, conjured by the heated imaginations of men who in their endeavours to prove favourite doctrines let prejudice warp their reason, for that animal putrefaction coexisting with disease, is surely accidental if proved by the modern fact, that the land living on rivers is literally covered with fish for the purpose of manure during the summer & singular as it may appear, there never has been a disease produced by it — I could bring forward other proof to substantiate the above premises, such as infectious waters, prunes & the vegeto-animal —

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putrefaction produced by our stable,
but I think the one mentioned so
triumphant that additional proof
would be superfluous — Diagnosis
this disease may known, by the
sounding of bilious matter the sea-
son of the year & the prevailing
rickness — The symptoms pro-
found are pain in the head, back,
& limbs, aching in the bones, alter-
nate changes of heat & cold, stiffness
in the eyes, dulness, languor of the
body, yawning & stretching ~~with~~ the
tongue covered with a yellow or green
ish fur, with the sense of bitterness
in the mouth, & the skin salivous.
It is then ascertained with a cold-
ness over the body, which is usually
preceded by the fever, becom-
ing confirmed — The patient.



may be considered as doing well, when
after a few days, if the pain in his
head becomes easy, his skin moist
& the pulse soft & slow - But if de-
lirium, submucus tundiment comes
occur, & the gastric uneasiness
still continue, your patient's life
is in jeopardy - The first thing
to be attended to in the treatment
of this disease is to moderate ex-
-tremal ^{again} effect which there is
nothing like blood letting, this
may be either local or general - If
the pulse is full & strong with a hot
dry skin, the face flushed & the ^{even} skin
impatient of light & would bleed
& on time it will be while I had made
some permanent impression on the
system & feelings of my patient in
my opinion one good bleeding is much



more effectual, than small bleedings,
frequently repeated. But as Dr Chapman
hurly remarks, we must use
the lancet with judgment, tempered
by discretion — If taking blood from
the system generally, does not relieve
particular symptoms, we must use
local blood letting, to accomplish
which, we must resort to cupping, &
arteriotomy, which seldom fail to
produce the desired effect — Emem-
tis are next in utility, they were
beneficial, by directly redding the
stomach of offensive matter, which
sympathetically extends its influence
throughout the system. I have seen
patients after the operation of an eme-
tis who had spent a sleepless night,
with a most distressing headache,
lying in bed unable to keep still or

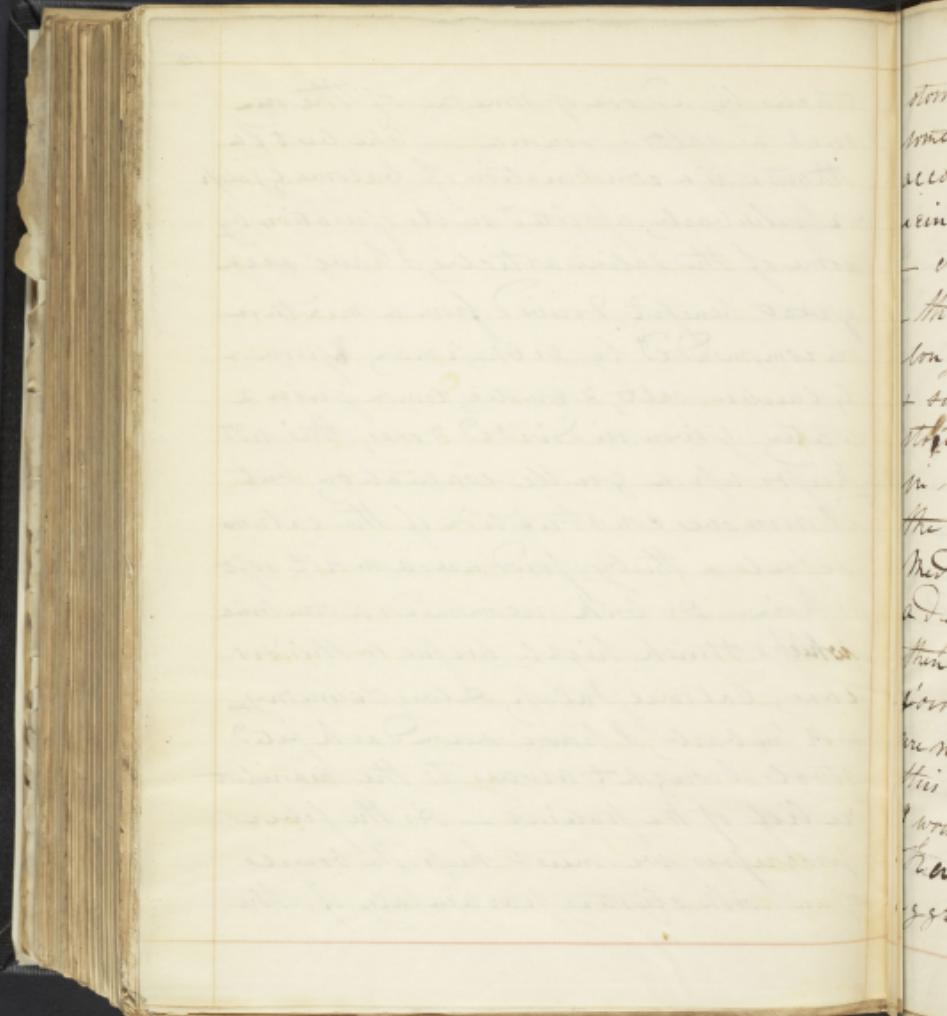
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moment directly become composed
all unpleasant symptoms leaving them
with a moist soft skin gradually sink
into a sweet calm sleep — I have no
much confidence in ^{the} class of remedies
that I consider them as almost spe-
cific in this Disease, certainly I
would never trust them without there
was a constitutional objection such
as hernia, pregnancy, internal inflam-
mation, or a strong predisposition
to apoplexy, as regards the continuance
of this remedy it would depend alto-
gether upon the effect produced.
The best emetic that I have seen
tried is the one recommended by
Dr Chapman, a combination of Dr.
coacanha & S. Emetic twenty of the former
and one or two of the latter, the op-
eration gives promptness of operation to

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the emetic whilst the Anterior remains
a sufficient time to evacuate the stomach
properly I have also seen a few ex-
periments from artificial cholera in this
disease produced by combining Cal-
-O nel & Carter — Cathartics are not
so efficacious they prove beneficial
by evacuating the alimentary canal
of bile & other offensive matter.
as there is generally much excitement in
this Disease at the beginning & as
these are exacerbators & remissives Dr
Chapman advises us to watch for the
remission before we give our medicine
as it is apt to be quickly rejected or
remain in a quiescent state upon the sto-
-mach; would it not be proper to
economize time instead of waiting for
the remission as the salts are said
to reduce action to speed the drastic

articles by a dose of some one of them
such as saltpetre & senna — The last pla-
-thritic is a combination of Calomel & Senna
or Salmabarley, assisted in its operation by
some of the saline articles, I have seen
great benefit derived from a mixture
recommended by Dr Chapman, & known as
Glauber salt, 3. Emetic, lemon juice &
water given in divided doses, this not
keeps up a gentle evacuation but
it removes constipation of the excreta
as well as a thirsty produces a moist, soft
skin — Dr Cook recommends a combina-
-tion which I think highly useful in this dis-
ease, Calomel, Salap, & long Teamony
& Salmabarley, I have seen dark fetid
stools brought away to the manifest
relief of the patient — As the fever
progresses we must keep the bowels
open with clysters particularly if the



stomach is in a very irritable state &
sometimes it is absolutely necessary on
account of our inability to get the med-
icine to produce the desired effect—
— As regards the continueal of these
Medicines, I would continue them as
long as my patient had a furred tongue
& yellow complexion a dark & fetid
stool; It is here that Calonel given
in minute doses shew itself to be
the Sampson of the materia
Medica, after having administered
a defined quantity it must be
then be worked up by salts con-
joined with Tartar— Diaphatics
are next highly important remedy in
this disease, but there are no remedies that
I would be more cautious in using ^{as they} as they
have been found by experience to
aggravate all the symptoms when

given at an improper time — They
provoke their beneficial effect by
diminishing the quantity of circu-
lating fluids, & by preventing or re-
moving congestion, determining the
blood from the viscera to the extreme
vessels — The best diaphoretic is an
ether Sambucus powder & water emetic & wine
prefer the latter as the former is fre-
quently adulterated. It must be gi-
ven from a fourth to an eighth of a
grain — As to the operation of this
medicine I think with Dr Chepman
that its produces its effect specifi-
cally & not by nauseating, as has been
supposed. For the most nauseating
articles do not produce diaphoresis
nor do they have an action in na-
tive life in proportion to the
nausea & consequently fever-

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Sometimes the stomach being too
irritable, we are unable to give an
emetic; we must then substitute
something that will be grateful,
such as the saline mixture; its
disposition to produce perspira-
tion being assisted by sweet spirits
of nitre or Anti in small wine —
When there is too much excitement
the remedy mentioned above, must
be laid aside & Rhus powder intro-
duced in their place, the balsomel
& tarter being omitted according to
circumstances; as an assistant to
the above I have seen the most
decided benefit accrue from the
application of ice or cloths dipped
in ice water & laid upon the
forehead, but this was only when
there was a great deal of heat

+ a determination to the head, it reduced the circulation caused perspiration + composed the patient to sleep - Next there has been much discussion about the propriety of using blisters + there are has been subjected to by very high authority, but I would use them against all authority except ocular demonstration, before giving if the system is properly ^{proper} by evacuation that they equalize the circulation + destroy the cells of mortification — This disease is frequent kept up from adhesion state of the liver, we must here resort to Calomel as a dernier resource a gently salivated our patient this hardly fails to restore him to health — As to the best

of
Dr. H. M.

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ment during convalescence, the whole
and consists in attending strictly to
the patient's diet, in giving bark or
its essence quinine & in the use of no
water or wine & by attending to the bowels
etc, if this treatment is strictly continued
we may never see a relapse —

H. W. C.

